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**The World Bank's open network. (using Systems Network Architecture
protocols in a multivendor computer environment)**
Steyer, H. Clement, Jr.
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ABSTRACT: The World Bank has created a multivendor computer network in which DEC VAXs, an IBM 3090 400E and a Unisys A17 work together to process financial, portfolio management, office automation and loan administration systems. The network uses common networking protocols and a custom version of the X.400 message-handling system. DEC and Unisys provide communications products supporting SNA and LU 6.2 protocols, so SNA was used as the network foundation (to be replaced by OSI protocols when they become available). Two SNA-based interconnection services were developed to connect the three primary computer environments: file transfer services using SNA Network Job Entry protocols, and application-to-application messaging services using custom software based on X.400 and LU 6.2 peer-to-peer protocols. Differences between the three environments and messaging systems developed are described.

TEXT:

The World Bank's Open Network

For years, the World Bank has been connecting the industrialized countries with developing nations in need of financing. So it might not seem remarkable that it recently got equipment from a trio of world-class computer companies talking to one another.

But these aren't just any three. These are the big three (in the United States at any rate)--IBM, Digital Equipment Corp. and Unisys Corp. And, like some of the bank's financing activities, this get-together promises to be a lasting one for the bank's financial systems.

The world Bank is tying together the financial and portfolio management systems currently on IBM equipment, with Digital Equipment-based treasury and office automation systems and loan administration systems running on Unisys A-Series hardware. Using common networking protocols and a specially crafted implementation of the internationally accepted X.400 message-handling system (MHS), the bank has achieved a working version of open networking.

From the beginning, the bank has been working toward using the Open Systems Interconnection (OSI) protocols to connect its systems. OSI protocols may be the lingua franca of computer communications--much as the gold standard was to international currency exchange. Yet, unfortunately, OSI is moving too slowly to accommodate the bank's interconnection needs. The bank had connected the financial systems on the three computers before complete OSI products were available from the vendors.

Unusual Methods

The World Bank has adopted some unusual methods for implementing the new networking scheme. Since Digital and Unisys each provide communications products that support IBM's Systems Network Architecture (SNA) and Logical Unit (LU) 6.2 protocols, the bank is using SNA as the network foundation--at least until all three vendors implement equivalent OSI protocols. X.400, an OSI-endorsed message store-and-forward specification, provides the same basic ability to communicate among applications.

To achieve its goal, the bank developed two SNA-based interconnection services spanning the three primary computer environments: first, file transfer services using SNA Network Job Entry (NJE) protocols and, second, application-to-application messaging services using internally written software based on the X.400 messaging protocol and LU 6.2 peer-to-peer protocol.

Both of these services rely on an SNA backbone networks interconnecting the three environments. The connections are made through specialized communications processors--a 3725 for the IBM 3090, an SNA gateway-ST for the Digital VAXs and a CP2000 for the Unisys A17. SNA protocols are supported by each vendor.

With the help of a pair of third-party communications products, the bank implements Network Job Entry on the non-IBM hosts. Joseph and Cogan Associates Inc., a Thousand Oaks, Calif.-based Unisys subsidiary, provides NJE on the A17 mainframe and Madison, Wis.-based Joiner Associates Inc.'s Jnet implements NJE on the VAX. A number of problems had to be overcome to get NJE to be a functioning file transfer facility.

Hosts of Differences

Since the bank's 3090 400E is running both the VM and MVS operating systems, the SNA network has four logical nodes to accommodate all three vendors' differing directory, security and file naming conventions. Many of the problems in getting NJE running were attributable to the multiple operating systems and the variety of NJE products. Such problems included differences in directory file-naming conventions, security mechanisms and node type emulations employed by the host environments.

The Digital environment presented its own special issues. The bank has multiple VAXs connected by a DECnet backbone network but uses a single VAX 6310 to supply the SNA and NJE interconnection services to all DECnet nodes. The bank's IS staff was able to link all the DECnet nodes through the single processor. For example, they wrote an exit routine for Jnet that handles file naming for files received from the MVS and the Unisys A17 nodes and delivers the files to the ultimate user account on the DECnet node. They also wrote a program to invoke Jnet on the VAX 6310 from remote DECnet nodes and remotely access the file to be transferred.

The staff created sample jobstreams--such as Job Control Language (JCL), EXEC, Digital Command Language (DCL) and Workflow Language (WFL)--for each environment. The jobstreams show users how to send and retrieve files from other SNA nodes. The IS staff also produced detailed documentation that provides, in one small manual, all the information a programmer or user needs to transfer files among the computers.

Messaging Systems

Message handling proved another stumbling block, as no truly interoperable X.400 products were available for the bank's three environments. Not to be stymied, the IS staff wrote its own message handling system (MHS) software based on the X.400 architectural model.

World Bank transactions are typically of low volume (less than 5,000 per day) and high value (\$100 million or greater are common). To meet these business requirements, the bank added special features to guarantee message delivery, to ensure resolution of any duplicate messages and to provide an electronic signature and message authentication capability. The MHS uses LU 6.2 protocols to transfer messages between the three computer environments. Displaying some foresight, the staff designed the system to be easily migrated to OSI protocols when such products become available.

Message data are conveyed by assigning a short name, called a "tag," to each data element and then forming a field in the message by combining the tag with the actual data value (separated by a colon). The whole data field is then enclosed in curly braces. A data field within a message would look like this: [tag:data]

Furthermore, a data field can be either elementary or compound, and a compound can be composed of both elementary and other compound elements, for example: [tag1:[tag2:data][tag3:data]]

The highest level compound is a message definition; fields within a message may be made mandatory or optional in the definition.

The definition of data elements, fields and **messages** are stored centrally in a master reference file. From these definitions, software generates two products that are used to build and interpret **messages**: a submission **template** and a construction template. Submission templates are fixed **format** record definitions that contain all fields for a **message**, with space for the maximum allowable size for each field. Construction templates are interpretation rules that provide the information needed to

convert the fixed data **format** of the submission template into the free-**format** version (suppressing unused optional fields and unneeded zeros), which is actually transmitted and received. The construction rules are also used to parse free-**format messages** that are received back into the fixed **format** of submission templates so that a receiving application can easily operate on the data received.

In order to relieve the individual application systems from the chores of constructing and parsing messages, the staff developed callable/shareable code, so that each computer could do these tasks. This component of the MHS, called the Application Interface or AIF, also executes the electronic signature and authentication tasks for each application.

Message Security

One of the bank's concerns in developing its distributed financial systems was security. Now, for security purposes, an electronic signature is appended to every message. This signature confirms that the message did in fact come from the purported sender, thus preventing undetected penetration of the bank's MHS network or alteration of messages.

The signature feature uses a private-public key pair encryption scheme based on a Shamir knapsack encryption algorithm. An application's private key is known only to the application itself, while the paired public key value is freely distributed to all potential receiving applications. The sending application provides the called application interface with its private key as a parameter. The AIF then checksums the constructed message and encrypts the checksum result using the private key, the application's public key and the encryption algorithm. The result is an electronic signature that is appended to the message as the authentication trailer.

The receiving application AIF decodes the electronic signature using the sender's public key and the decryption algorithm. It then re-checksums the received message and compares the result with the value of the decrypted signature. If the comparison is identical, the message is authenticated.

Modeled After X.400

The MHS architecture follows the concepts of the X.400 model. The significant features of this architecture are:

- * Database interface: The interface between an application and the MHS is through the application's database. The interface enables the application to commit its functional actions and any resulting message actions simultaneously, thus ensuring synchronization between an application transaction and any associated message.

- * Each application's user agent (UA) interfaces to the application's database from a standard UA developed for each environment. Each application has its own UA, its own unique name and a set of dialogue tables that contains control information about applications with which it communicates.

- * Message transfer agents: Each message transfer agent (MTA) has a database that stores messages or forwards them to another MTA or to one of the user agents in its environment. Each MTA has a complete set of routing tables for all applications the system supports.

- * Automatic routing: An application need only know the name of the destination application. The MHS handles all routing, even if the destination is in the same environment.

- * Layered architecture: The MHS is implemented as a set of layers with specific interfaces between layers and logical protocols that connect each with its companion layer across environments.

Although the interfaces between layers are similar across computer environments, they differ in their technical details. These details accommodate differences in task-to-task interprocess communication (IPC) services provided by each of the four operating systems. The IPC serves as the interface between an application and the AIF. The interface between the AIF and the application's UA is a data interface through the application's database. The other layer interfaces in an environment are IPC interfaces.

This architecture allows applications to run independently of the MHS

and of each other. An application does not have to be running for its UA to receive messages; only the application's database must run. This also permits an application to be either interactive or batch.

The true functionality of the MHS is implemented by the logical protocol links that are in place between corresponding layers. At the application layer, the protocols specify the purpose of each standard message type, an application's response when receiving and processing particular message types, the business conditions that cause a particular message to be sent to another application, the business event references that are exchanged between applications and the ways to handle exception conditions.

At the AIF layer, the MHS protocols provide for checking the versions of standard message formats and upward compatibility of revised message formats.

The features of guaranteed delivery and duplicate message resolution are implemented in the user agent layer protocols. These protocols provide for unique message identification, positive acknowledgment by a UA to a received message, retransmission of messages that have not been acknowledged based on an exponential time scale [retransmit time = [2.sup.**] (transmit count) minutes], and the discarding of messages that have already been received and acknowledged. Separate checksumming of the UA header and the message body are employed to provide data integrity.

The message transfer agent (MTA) protocols implement complete message routing and store-and-forward functions for all applications within the MTA's environment.

Master of the Gateway

The gateway agents (GWA) are implemented as paired message senders and receivers, with senders acting as masters and receivers as slaves. The protocol between a master sender GWA and its paired slave receiver GWA is standardized, using LU 6.2 mapped conversations with confirm synchronization.

Since the VM/XA operating system does not yet support LU 6.2 protocols in a usable way (as does VM/SP), the links between VM/XA MTA and the other environments are made via NJE file transfer of batched messages. Fortunately, because the bank's VM applications do not currently have a time-critical need for message transfer, the organization can live with a batched interface until IBM provides LU 6.2 support in VM/XA.

The World Bank's interconnection services have been in initial production since June 1989. Five applications currently use the message-handling system for production work, and four more will use it early this year. Standard IBM tools such as NetView network management are used to manage the SNA interconnections. The times for the complete transfer of a message, including the database overheads at both the MTA and UA, average about 3 seconds, with an average message length of about 500 bytes. The management of the service is not a significant operational problem. The design implementation of the MHS has proven to be robust and has met its design goals: no messages lost, no messages duplicated, no undetected message corruption and reasonable message transit times.

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CAPTIONS: How the World Bank configured a multivendor network. (chart)

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Modeling the forms of international cooperation: Distribution versus information

Morrow, James D

International Organization v48n3 PP: 387-423 Summer 1994

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WORD COUNT: 16424

...TEXT: requires both a forum for the exchange of messages and a shared interpretation of those **messages** .

In the **model** , the equilibria of the game provide a set of descriptions of stable behavior under a successful form of cooperation.(6) An equilibrium specifies what **messages** the players **send** to one another about the game, how they interpret those messages, and what actions they...prohibitive for most extra-European traffic. Billing by the word would reduce the cost of **sending** short **messages** , and so encourage additional extra-European traffic. Many European states objected to reducing the unit...

... the additional traffic generated enough revenue to cover both the loss of revenue on shorter **messages** and the cost of the **added** traffic. But that result was not obvious in 1875. Fourth, actors frequently have divergent preferences... to the reports the players exchange as "messages" and formalize them as message 1 and **message** 2. Actors send **messages** after they have **received** their signals but before choosing their move for that round. The exchange of messages corresponds...

... The following section presents the equilibria of the model. These equilibria give stable arrangements for **sending** and understanding **messages** and **selecting** moves based on those **messages** . Neither player has an incentive to defect from an equilibrium once both understand they are...

... equilibrium, a "babbling equilibrium," lacks any effective regime. In a babbling equilibrium, each player always **sends** the same **message** regardless of the signal it has received. The actors adopt equivalent actions and receive equal... expects the other player also to play that move. Neither player has any preference over **sending** one **message** over another because the outcome on which they coordinate depends upon both players' messages.

The...

... type of equilibrium, a "communicative equilibrium," the players' messages correspond to the signals they have **received** .(36) Such **messages** , however, create an incentive for the players to dissemble. An actor can benefit sometimes by **sending** the **message** that it has **received** a favorable signal when in fact it has received an unfavorable signal. Players **receiving** **messages** discount them based on the possibility that the sender is lying about its signal. How...

...honest communicative equilibrium" exists. Both players accurately report the signals they receive. If both players **send** **message** 1, then they both play move A. If both players **send** **message** 2, they play B. If one player **sends** **message** 1 and the other **message** 2, they follow the procedure used in the pure coordination...

... interpretation of the honest communicative equilibrium. Actors who receive unfavorable signals would prefer lying to **sending** an honest **message** if they believe the interpretation of the honest communicative equilibrium is in effect. When each actor expects the other to **send** a

dishonest **message** , a "dishonest communicative equilibrium" is possible. The actors discount one another's messages of favorable...

... communicative equilibria. One interpretation that does so directs the actors to play A if both **send message 1**, to play B if both **send message 2**, to use the pure coordination equilibrium if player 1 **sends message 2** and player 2 **sends message 1**, and to play the babbling equilibrium if player 1 **sends message 1** and player 2 **sends message 2**. This equilibrium rewards both players with successful coordination when they both **send honest messages** of unfavorable signals. Both sides protect themselves against the possibility of dishonest messages by playing the babbling equilibrium when they both **send messages** of favorable signals. Playing the dishonest communicative equilibrium entails a chance that the players will...

... probability of identical interest (p). The lower p is, the greater the players' incentive to **send dishonest messages** when unfavorable signals are received. Dishonest communicative equilibria are less likely to produce coordination as however, always **send honest messages** , and the probability of a dishonest message rises with a . The probability of coordination under...

... communicative equilibrium. In some cases, no communicative equilibrium is possible. Players receiving unfavorable signals always **send dishonest messages** in these cases, and the players find themselves in a babbling equilibrium. When players **send the same message** no matter what signals they have **received** , **messages** lose their ability to communicate information. Under these circumstances, the pure coordination equilibrium produces a...

... players are treated identically. In the fourth type of equilibrium, a "leadership equilibrium," the players **send their messages** sequentially, giving them different roles. One player **sends a message** about its signal; the second player then tells the first which move it (the second...

...latter player as the leader and the former as the follower. The follower always "babbles"-- **sends the same message** regardless of the signal received--and so the leader cannot learn anything about the follower's private information from its message. The follower can never gain by **sending a message** that it has seen an unfavorable signal. If the leader has received a favorable signal...moves are analogous to norms within a regime. Strategies are complete plans for playing the **model** ; they specify particular **messages** and moves for specific situations and histories of the model. Like norms, the players' cognizance... at this stage is self-enforcing.

At the message stage of the game, both players **send each message** with a probability of $1/2$, making each other indifferent between **sending** either of the **messages** . If one player **sends a message** with a probability greater than $1/2$, the other can increase its payoff by **sending the corresponding message** (the matching message for player 1, the other message for player 2). Then the strategy...

... received and the combination of the messages determines on which equilibrium players coordinate. If both **send message 1** (or 2), they both play A (or B, respectively). If the messages do not...

... playing moves, this equilibrium is self-enforcing. I determine the conditions under which the players **send honest messages** .

Both players report favorable signals accurately. The question of honesty lies with players receiving unfavorable signals. Let "player 1 **sends message 1**" be abbreviated as $1s1$. Player 1's expected utility for **sending each type of message** , given that it has received a signal of 2,

thus is calculated:

u sub 1...

... so only the signaling stage is checked. If r is the probability that player 2 **sends** **message** 2 when it **receives** signal 1, the expected values for player 1 of **sending** **messages** of 1 and 2 if signal 2 is received can then be calculated:

u sub...

... on showing first, which move the leader will announce and second, why the follower always **sends** the same **message** regardless of what signal it has received. Assume for convenience that player 1 is the...and when $p > 1/2$, player 1 prefers B.

To see that player 2 always **sends** the same **message**, note that player 1 announces move A if it receives signal 1 regardless of player...

... 2 always prefers move B regardless of which signal it has received. Player 2 always **sends** the same **message** regardless of which signal it has received.

FOOTNOTES

1. For discussions of the interaction between...A later section discusses choosing among different possible equilibria.

38. There are other ways to **send** **messages** sequentially that have the same effect. For example, the first player's message indicates what...

26/K/2 (Item 2 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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Making the most of messaging

Marshall, Patrick

InfoWorld v15n42 PP: 76-100 Oct 18, 1993

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 17088

...TEXT: to construct rules from scratch. And there are six predesigned forms to choose from when **sending** a **message**.

The optional forms creation package (\$995) is another of BeyondMail's strengths. This powerful add...

...spell-checking of messages.

As before, Da Vinci offers a strong set of tools for **sending** and managing **messages** and even includes a generous array of 28 message forms of various types, although it...application is, compared with the competition, decidedly low end. Team is capable of the basic **messaging** tasks-- **sending** carbon copies, requiring receipts, and creating personal address books and user groups. However, it has...

... utility for searching for messages, and the only way to save a draft of a **message** is to **send** it to yourself. There is also no rules utility included.

The main reason to consider...in configuring the Windows client software. Whenever we tried loading the E-mail module, we **received** error **messages** indicating that the program couldn't find certain files. Eventually, we discovered that the root... users individually or as groups, specifying

whether they have the ability to delete, read, and **send messages**, whether they can **send** mail to external post offices, and whether they can send "Priority 5," or urgent, **messages**. If you're **adding** a number of users who are already on the network, you will probably want to...will suggest spellings if requested. The program lacks a thesaurus, though.

The program lets you **send** a **message** directly from the composing screen or save it as a draft for later editing. And...

...32KB limit. To attach files, including any type of binary file, click on the Attach **icon**, and **select** the file from the directory box.

BeyondMail does not include any file viewers, which means...carbon copies is just as simple: Click on the CC: or BC: button in the **message** header and **select** from the user directory.

Next, to set a priority alert, we clicked on the Options...

... the memo, to send a receipt when the message is opened, and to encrypt the **message**.

Replying to a **received message** is simply a matter of clicking on the Reply icon in the toolbar. A new...

...the program so that the original message is not included in replies.)

Unfortunately, once you **send** a **message**, there is only an undocumented way to pull it back if the recipient has not...

... messages is simple, and up to 20 such attachments can be made to a single **message**. And you can now **select** multiple files to attach at once--the previous version limited you to attaching only a...priority of the message: normal, low, or urgent. Specifying urgent, for example, results in the **message** **receiving** a hard-to-miss red "urgent" label. Urgent **messages** also **receive** first priority when **messages** are sent to other post offices and gateways.
CC:Mail was not able to perform...

... of the message commands --including those for keeping a copy, setting a priority for the **message**, **sending** a receipt when read, and encrypting the message--can be accessed either through pull-down...

... Vinci does allow you to save memos as drafts for later editing. And you can **select** any Windows font for **messages**, though only for printing purposes. You can't format your message with a variety of...

... message, all you have to do is click on the Attachment button in the Create **Message** form, then **select** the file to be attached. And the program provides built-in viewers for many of...

...a user--a procedure that requires a third-party gateway.

Da Vinci offers a generous **selection** of 28 **message** forms, including forms designed for phone messages, expense reports, and the like. Unfortunately, you can...for example, save drafts of messages. Instead, the work-around suggested by Futurus is to **send** the **message** to yourself, edit it later and then forward it to the real recipient.
Even more...

...written was unusually simple, thanks mostly to the lack of print options provided. When you **select** Print with a **message** open or highlighted it will be printed directly with the program's default settings. You...

...is accomplished very easily by clicking on the toggle bars at the bottom

of the **message** creation screen.

Sending carbon and blind copies of the message is also simple. The only curiosity here is...

... creating data fields, and you can't do any formatting to speak of, but these "**templates**" can structure simple **message** documents.

MICROSOFT MAIL: Microsoft Mail is quite powerful in messaging capabilities, but that power does...

... the program does this in a rather unintuitive fashion. You must try to close the **message** without **sending** it, and Mail will ask whether you want to save it. If you say yes...

... messages sent, and you can even configure Mail to automatically perform a spelling check when **sending messages** --a nifty touch.

It's easy to import text from an outside file directly into a **message** by **selecting** Edit/Insert from the File menu or, if you prefer, you can simply cut and... then tried to pull back the message we just sent. Mail does not allow the **sender** to pull back **messages** (unopened or opened) directly. However, the administrator can retrieve a message if it has not ...

... any spreadsheet or database files. Nor does WinMail allow you to insert OLE objects into **messages** .

WinMail allows you to **select** from both public and private address books in sending mail. Users can create mailing lists...

...offering a very efficient spelling checker and a thesaurus.

If you don't want to **send** the **message** you're working on right away, you can save it as a draft for later...

... not retain the columnar alignments. When we tried to view the attached Excel file, we **received** a **message** telling us no viewer was available. Office provides viewers for only a handful of file...carbon copy address options, as well.

Office offers quite strong control over how it handles **sending messages** . You can set the message delivery priority and have Office display in your Sent box...

... handling messages. Each type is triggered by a different event, such as loading the program, **receiving** a new **message** , moving a file, the arrival of a preset day or time, a Dynamic Data Exchange...

... simplified rules utilities, including notification of any message arriving from a specified individual and automatically **sending** replies to **messages** delivered while we were "out of the office." The only obstacle we encountered while creating to, copy to, delete, mark as read, print, reply to sender using **message** , forward current **message** , **send** draft **message** , confirm, alert, beep, and flash window.

The program made short work of accomplishing each of...

... need them. The automated reply feature lets you create rules that refer to a boilerplate **message** , using an extensive **selection** of Boolean operators.

CC:Mail does not offer "message threads" per se, although if a...

...of tools to search messages. First, you can pop up quick search boxes to

search **messages** by **sender** , subject, or date. If those options don't do the job, you can select "Other..."

... the strongest search utility in the business, but it is interesting and easy to use. **Select File/ Message Finder** and you'll be offered a box with fields for the **sender** of the **message** , the subject, the recipients, and the message text. Unlike some programs, Mail does not allow...browser window. If you open the browser, it will display the contents of the currently **selected message** in a window just below the folder window. The browser window offers a smooth and...

... WinMail was not able to perform our test tasks of automatically sending boilerplate replies to **senders** of incoming **messages** . Nor could WinMail be configured to automatically forward messages to other users.

Because WinMail relies...

...you specify the type of item--E-mail message, schedule item, note, task, or phone **message** . You can also **select** from a sublist of miscellaneous characteristics, such as a private message, a message with attachments... your designated proxy--usually your secretary--can even schedule your appointments, receive notification when you **receive** a new **message** , and **send** E-mail responses in your name.

Office does not offer any sort of message threading...

... support message-base encryption (it will in the next release). Users can, however, still encrypt **selected messages** before **sending** them. Viewing encrypted **messages** requires a password to open the message.

BeyondMail provides utilities for rebuilding message databases and...

...that unauthorized users cannot read messages not meant for them.

The program also makes archiving **messages** an easy operation. Just **select Archive** under New in the File dialog and enter a path and file name to... there is no password protection for the iconized program.

Second, the program does not encrypt **messages** until they are **received** in a user's mailbox, which means that there is a potential security risk while...

...the specified date using the Purge command in the administration module. The administrator can purge **messages** either from **selected** users' mailboxes or from those of all users.

The Fix Mailbox utility in the administration...

... does not provide any encryption, either for the message base as a whole or for **selected messages** .

For related reasons, Futurus Team does not provide tools for recompacting the message base. Each... routers or other software to operate in a multiple-server environment. But you'll need **add -ins** to design **message** handling rules, create custom forms, and view attachments.

WINMAIL: Powercore generally provides a simple set...

26/K/3 (Item 3 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00747520 93-96741

Internet Privacy Enhanced Mail

Kent, Stephen T
Communications of the ACM v36n8 PP: 48-60 Aug 1993
ISSN: 0001-0782 JRNL CODE: ACM
WORD COUNT: 9143

...TEXT: the case of a forwarded message, this service reliability identifies the forwarder, not the original **sender**, of the **message**.) This service counters a serious deficiency in current email systems, where it is often quite easy to forge the identity of the **sender** of a **message**. The recipient of forged message might be misled into taking inappropriate actions or might wrongly attribute libelous comments.

The connectionless integrity service provides the recipient with assurance that the **received message** content is identical to the content sent by the originator. This service protects against attacks...

... The service is deemed "connectionless" because it does not attempt to impose any ordering among **received messages**. Although authentication and integrity services are described here as independent, they are usually provided in...

... incoming messages. If a user switches off his computer overnight, on weekends or holidays, this **model** would be violated and a **message** originator might **receive** an error indication from the MTA. Hence desktop computer users often maintain mailboxes on server...g., mailbox addresses), is required to control PEM processing. If the (optional) confidentiality service is **selected** by the **message** originator, these recipient identifiers are used to control message encipherment.

In Internet email, the header...being transformed in a fashion that would invalidate the integrity and authenticity checks. An ENCRYPTED **message** **adds** the confidentiality service to integrity and authenticity. This message type also uses the encoding transformation...

... contains the data needed by each recipient to verify the integrity and authenticity of a **received message** (and to decrypt a confidential message). Data generated during the second and third transformation steps ...as is applied to the message content).

ENCRYPTION

The second PEM processing step also provides **message** encryption, if **selected** by the originator. This processing is performed only if the PEM header specifies a Proc... of the recipient's distinguished name, rather than a mailbox name, permits a recipient to **receive email** on multiple computers with different local account and mailbox names, while retaining a single cryptographically...

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07043351 Supplier Number: 57621454 (USE FORMAT 7 FOR FULLTEXT)
AUTOMATIC E-MAIL DISTRIBUTORS: TURNING INFO@ABCORP.COM INTO
SALES@ABCORP.COM.
GRIGONIS, RICHARD
Computer Telephony, v6, n11, p139
Nov, 1998
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 9949

... addresses such as info@yourcompany.com and support@yourcompany.com.
Agents can quickly reply to **messages** by inserting a suggested

response, **selecting** a **message** from the centralized Standard Response Library (SRL), choosing a message from a personal list of...data based, reports can be easily generated from the database.

With iWeb, blending inbound and **outbound** e-mail **messages** is a standard supported feature. The agent simply launches **outbound messages** by a mouse click and the details of how the message is formatted and transmitted...slash message processing costs by up to 80%. It further raises productivity with suggested reply **templates** for manually answered **messages** .

The Brightware Answer Agent works as an autonomous agent within the Brightware Server that continuously...

...fields as in @Once Enterprise. They just click on a button, send a question, and **receive** an instant **message** from a CSR within minutes or seconds.

Once volume builds you can add @Once Enterprise...has been over a given period.

Reporting functions can answer such questions as: How many **messages** did you **receive** in March? How quickly were they answered? How quickly is your new employee responding to on the subject, content or **sender** of the **message** . Response rules can easily be customized using the simple Web interface. Complex rules are written...

...distribution list. Data from customer inquiries is used to identify the most appropriate people to **send** targeted **messages** . **Messages** can contain any data in the database such as customer name or subject of latest customer inquiry. **Outbound messages** alert customers of upgrades, promotions, reported bugs and other important announcements.

All system services are...able to view the 'thread' of e-mails that led up to it, including the **messages received** from the customer and the replies from different staff members.

For the server you should...

...MB memory minimum and 200 MB of hard disk space, depending on the amount of **messages received** per day.

The package will work with Microsoft Exchange Server 4, 5 or 5.5...A typical tracking number looks like this when it's first assigned to an incoming **message** : SPT1997010800000011

IMC **adds** a unique **message** ID to the tracking number for each additional message associated with the original message. ...mail discussion with user while keeping track of every message that has been sent and **received** .

The Internet **Message** Center works with Microsoft Exchange, Microsoft Outlook, Lotus Notes, cc:MAIL, Eudora mail and all...

...voice over IP, and more.

IMC doesn't replace your existing e-mail software. IMC **receives** , manages and distributes **messages** addressed to specific message pools. IMC works with any e-mail server capable of sending...

19981101

26/K/5 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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06704836 Supplier Number: 56068753 (USE FORMAT 7 FOR FULLTEXT)
Microsoft Outlook Express.(Product Support)(Tutorial)
PC/Computing, p182
Nov, 1999
Language: English Record Type: Fulltext
Article Type: Tutorial
Document Type: Magazine/Journal; General Trade
Word Count: 586

... in-box or a newsgroup, click on the View menu, point to Current View, and **select** Group **Messages** by Conversation. Now you'll see your messages organized in thread order.

Look Smart Just because most of the **messages** you **send** are electronic doesn't mean they can't have the customized look of paper-based ...

...additional stationery files, it will be automatically added to your Apply Stationery menu. If you **receive** a **message** that has attractive stationery you want to use, click on File, Save as Stationery. This...

...then on Show Replies to My Messages from the cascading menu.

Keyboard Shortcuts

Alt-S **Send message** .

Ctrl-I Switch to Inbox folder.

Ctrl-K Check names.

Ctrl-M Send and receive mail.

Ctrl-N Create a new **message** .

Ctrl-Q Mark **selected message** as read.

Ctrl-R Reply to just the sender.

Ctrl-Shift-B Open Address Book...

...jazzing up a message, but to truly create your own look-and save time-use **templates** . Even **add** a blind carbon copy address so that every **message** based on the **template** will get cc'd to a specific address. In the message window, click on File...

19991101

26/K/6 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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10212444 SUPPLIER NUMBER: 20559596 (USE FORMAT 7 OR 9 FOR FULL TEXT)

DMS products. (Defense Message System administrative agency e-mail

software) (includes related list of remote software, Q&A for DMS buyers,

DMS case study with 3rd Army Corps) (Buyers Guide)

Lais, Sami

Government Computer News, v17, n12, p49(5)

May 4, 1998

DOCUMENT TYPE: Buyers Guide

ISSN: 0738-4300

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 4822 LINE COUNT: 00462

... low-level messages. It also will accommodate group are to more closely resemble a commercial **model** .

Under the FLA, X.400 **messaging** and IP messaging will run over the same Defense Information Systems Network.

DOD will be...

...core function.

A messaging system comprises three functional areas: a user agent, which creates, and **sends** and **receives messages** to and from the message store; a message transfer agent, which stores and forwards messages ...is some of what DM5 does that users don't see when they create and **send a message** :

* Smith types a message and clicks on a button to go to the X.500...

...there, the DSA widens the search to other DSAs in the X.500 directory.

* To **send a message** , Smith must assign it one of six precedence values that reflect its urgency: routine, priority...

...MEK with Smith's private key, Johnson's public key and a random number.

The **message** Smith **sends** is actually the encrypted MEK, random number and the encrypted text of the message.

Johnson...

...send button.

A DMS groupware server, formerly called a subordinate MTA, at Smith's command **sends** the **message** to the next tier in DMS, a primary groupware server, ...on the groupware server at Johnson's command and from which he'll retrieve the **message** .

* When Smith **selects** Johnson's name from the X.500 directory, he may be aware of whether that...

...or non-DMS, but he need not act on the information.

If he were to **send** a DMS **message** over AUTODIN, the message would be automatically routed to a multifunction interpreter (MFI), which would ...

...have a list of individuals to whom he regularly sends information. When he wants to **send** a **message** to them, he drag and drops the list name to the send to box and...software used to modify information in the directory. A DM5 Mail List Agent will be **added** to **send** organizational **messages** to groups of recipients.

"It all grew from an old Simple Mail Transfer Protocol gateway...

19980504

26/K/7 (Item 2 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB

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06802435 SUPPLIER NUMBER: 15041286 (USE FORMAT 7 OR 9 FOR FULL TEXT)
LAN e-mail packages. (local area network) (PC User NSTL Lab Test) (Software Review) (includes related articles on National Testing Software Laboratories' testing facilities and the recommended packages) (Evaluation)

PC User, n224, p116(14)

Dec 1, 1993

DOCUMENT TYPE: Evaluation ISSN: 0263-5720 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 7978 LINE COUNT: 00660

... database units and security control.

The front-end, or client side, simply submits requests for **sending** and **receiving messages** . Clients can query the message database for message servers act as mail dispatchers between users...

...provides a mail system interface to the message database engine, and provides the facility for **sending** and retrieving mail **messages** . It also provides a message editor for creating new messages. Most mail system vendors offer...

...from the home post office, offline message creation and addressing, the ability to download only **selected** files and **message** headers, and batch file transfers. In terms of usability and setup, all the tested products present very straightforward modem **selection** , setup, dialing and **message sending** options, with the exception of WordPerfect Remote Office, which has a somewhat complex architecture, requiring...members of public mailing lists can share the contents of a group folder. Users can **add** to, delete from and copy **messages** between folders.

WordPerfect Office places folders on ...with multiple post offices.

Performance

Performance scores aggregate an e-mail system's speed for **sending messages** to single users and to mailing lists over the local network and across modem connections...

...less notably in the network tests. This is primarily because of its poor performance when **sending messages** with large attachments to sizeable distribution lists on a NetWare fileserver; the program sends copies...

...are easy to learn in all the programs. Most Windows users should have little trouble **sending** and reading **messages**. Learning advanced features such as message sorting or specialised folders requires the documentation or online...

...user clicks on a menu item. Some features are not so obvious, such as creating **templates**, rearranging **messages** and deciphering **message** icons. Microsoft Mail has an icon bar with descriptive text, but small 'envelope' icons next...The DOS versions of most packages require roughly twice as many keystrokes to initiate and **send** a **message** as their Windows counterparts. With the exception of QuickMail, all the programs' Windows versions feature...

...windows can be tiled or cascaded. The template feature lets users save a frequently used **message** as a **template** for future use. Testers were unable to find a way to customise the icon bar...

...and mail sent from the workstation's screen.

Each test measured the time required to **send** the **message** (with any attachments) from the workstation to the post office database and associated directory areas...again (the point at which the LED turned off).

Performance tests

* On-LAN tests

A. **Send message** with attachment to a single user and a distribution list

Each mail system **sends** a 1Kb text **message** with a 500Kb attachment from a workstation to the local mail database. Testers measure the...

...returns at the workstation (if a large file attachment takes an appreciably long time during **message** preparation, that time is also added to the actual **message send** time).

Testers **send** the **message** to a single recipient and then distribute the message to lists of 10 and 100...

...file from the designated area on the server disk to a temporary holding area) is **added** to the **message** transmission time.

Similarly, QuickMail's Macintosh client performance suffers because the program makes multiple copies...

...and four without), dials into the post office via an asynchronous message router, uploads the **messages** and **receives** 1Kb text **messages** of 1Kb each (no attachments) queued in its in-box at the post office.

The...

...each, dials into the post office via an asynchronous message router, uploads its queue of **messages** and **receives** text **messages** of 1Kb each (no attachments) queued in the remote's in-box at the post...

...2,400bps modem connections because of significant line costs. Such links should be used to **send** and **receive messages** with small size attachments only.

The test results in the DOS/Windows remote programs reveal...

...14,400bps with error correction and compression enabled.

E. File storage efficiency test

NSTL technicians **send** an empty **message** with a 500Kb attachment file to a 10-user distribution list at the post

26/K/8 (Item 3 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
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05761105 SUPPLIER NUMBER: 11751580 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Microsoft Corp.: Microsoft Mail 3.0 for AppleTalk Networks. (Software Review) (one of four evaluations of electronic mail systems in 'QuickMail Stands Above Crowd; Mac-to-PC E-Mail Package Boasts Ease of Use, Flexibility') (Evaluation)

Bethoney, Herb

PC Week, v9, n3, p61(1)

Jan 20, 1992

DOCUMENT TYPE: Evaluation ISSN: 0740-1604 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 405 LINE COUNT: 00033

...ABSTRACT: the Mail Tools utility. Microsoft Mail 3.0 has a very intuitive design; users can **send messages** by clicking icons. Microsoft Mail for AppleTalk 3.0 ships with a Gateway Installer function...

... Microsoft Mail 3.0. Its main window uses several icons that users click on to **send messages**, graphics and enclosures, or to send an inquiry to the mail administrator. Messages can be...

...at the bottom of the window let users quickly reply, forward, print, move and delete **messages** that have been **received**.

The program lets clients choose among several **message** forms or **templates**. The mail administrator can **add** customized forms as necessary. A Note message can contain as much as 32K bytes of text and enclosed files. Microsoft Mail also permits a user to record a sound **message** and **send** it to another user on the network.

The package includes a Gateway Installer that lets...

...the gateway is installed, a gateway icon is included in the Address window of a **Send message**, and clients can **select** a special addressing screen to send mail to the external service.

Microsoft's Word and...

19920120

26/K/9 (Item 1 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)
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02124516 SUPPLIER NUMBER: 19913536 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Get the message. (Microsoft's Message Queue Server and IBM's MQSeries network software) (Application Architect) (Product Information)

Linthicum, David S.

DBMS, v10, n12, p24(3)

Nov, 1997

ISSN: 1041-5173 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2791 LINE COUNT: 00227

... for a retail organization a few years back. The client used the MOM API to **send messages** to an IBM mainframe, a Unix-based database server, and a TP monitor, all at...

...transaction processing features.

There are two basic types of MOM: process-to-process messages and **message** queuing. The process-to-process **model** needs both the sending and receiving process to be active in order to exchange messages...

...lacks the asynchronous features that add to the value of using the MOM. The queuing **model** stores **messages** in a queue, so only one process needs

to be active. (See Figure 1, page...the update to fail.

Message routing services give your client/server application the ability to **send messages** to their destination using least-cost routing. The administrator only needs to define the cost...

...unreliable networks, such as an enterprise WAN or the Internet.

MSMQ notification services inform the **sender** that the **message** was **received** and processed. They also handle messages that time out, which gives developers the chance to...

...the journaling subsystem maintains copies of messages moving through the system. Developers are able to **select messages** and queues for the journal. The idea is to allow developers to recover from failures...

...queue handle. The handle allows MSMQ to identify the destination queues to the MSMQ server **sending the message**.

Next, you create a **message** by allocating local memory and **adding** information to the **message**. Here is where you have an option to add parameters, such as timeout values, names...

...variety of platforms.

MQSeries products provide you with a single, multiplatform API. Thus, you can **send a message** from your Windows 95 Workstation and route that message through Unix, VMS, or even a...

19971100

26/K/10 (Item 2 from file: 275)

DIALOG(R) File 275:Gale Group Computer DB(TM)

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02059627 SUPPLIER NUMBER: 19344838 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Behind the IMAP rap. (four Internet Message Access Protocol 4 servers reviewed) (includes related article on Editors' Choice) (Software Review) (Evaluation)

Boyle, Padraic

PC Magazine, v16, n10, pNE1(7)

May 27, 1997

DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 4559 LINE COUNT: 00357

... issue).

By definition, POP3 is a store-and-forward messaging system. A POP3 mail server **sends** a client its **messages** and doesn't keep a copy on the server. IMAP4, on the other hand, is...

...local hard disks for reading and creating messages. The user connects to the server to **send** and **receive messages**. Off-line mode is often used by road warriors who rarely stay in one place...

...as IMAP4 does.

Disconnected mode offers the most flexibility. The client software copies, or caches, **messages** and attachments **selected** by the user to a local disk and leaves the original copy on the mail...

...product functionality using Sun and TeamWare mail clients.

During our tests, we simulated sending and **receiving** small and large **messages**; some messages included file attachments. We also tested each server's ability to work in...based data-encryption scheme, has become the de facto industry standard; it allows users to **add** digital signatures to **messages** sent across the Internet. These digitized messages are encrypted from end to end. The drawback...remote location.

Creating users in TeamWare Intranet Mail was a breeze. The administrator uses **templates** --which are great for **adding** large numbers of users to the mail server--to create users with similar attributes. For ...

...server. A handy housekeeping feature of TeamWare Intranet Mail is the administrator's ability to **send messages** to all users during their log-ons. For example, you can let your users know...doesn't offer a foolproof client yet.

1 The IMAP4 standard follows a client/server **model** . The mail **messages** sit on the mail server until your users decide to download the mail messages and...

...messages are deleted from the server. From any IMAP4 client, users can view their mail **messages** by **sender** , subject, and size. Then, they can then fetch the individual messages they want as well...

19970527

26/K/11 (Item 3 from file: 275)
DIALOG(R) File 275:Gale Group Computer DB(TM)
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01805385 SUPPLIER NUMBER: 17180694 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Programming Windows 95 with MFC, part III: processing mouse input. (Tutorial)
Prosise, Jeff
Microsoft Systems Journal, v10, n8, p57(15)
August, 1995
DOCUMENT TYPE: Tutorial ISSN: 0889-9932 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 9324 LINE COUNT: 00819

...ABSTRACT: Windows also provides a unique feature that allows an application to capture the mouse and **receive** mouse **messages** regardless of the cursor position. A mouse-capturing application, called MouseCap, illustrates this capability. Windows...

... the appropriate application message queue. The message is then retrieved and dispatched just like other **messages** .

This input **model** differs from that of Windows R| 3.1, which stores mouse and keyboard messages in...

...message queue; in a multithreaded Win32 R|-based app, each thread that retrieves and dispatches **messages** **receives** a private input queue. The benefit of allocating each app (and possibly each thread within...

...a window's client area with the messages listed in Figure 1. Of course, the **messages** your app **receives** depend on the mouse that's installed. Your application won't receive WM...are directed to the window that performed the capture. This ensures that a button-up **message** will be **received** no matter where the cursor is when the button is released. Mouse capturing will be...MOUSEMOVE **messages** to drag a group- **selection** rectangle when the mouse is moved with the left mouse button held down. However these...MOUSEMOVE **messages** , Windows does not **send** a **message** for every pixel that the cursor crosses over unless the hardware is capable of keeping...a window contains child windows such as push buttons or scroll bars, it will not **receive** mouse **messages** when the mouse is clicked (or the cursor moved) over a child window. Following the...

...scroll bar without processing any mouse messages itself. Clicking a window's vertical scroll bar **sends** a mouse **message** to the scroll bar's window procedure, and the scroll bar in turn sends a...

...represented by a CRect.

ILLUSTRATION OMITTED|

TABULAR DATA OMITTED|

The first step in processing mouse **messages** is **adding** entries for the **messages** you are interested in to the message map. The declaration for TicTac's CMain-Window...immediate attention to avoid debilitating effects such as the corruption of disk data.

You can **add** an artistic touch to your **message** boxes using MB...in the form of the global AfxMessageBox function. The two are very similar, but AfxMessageBox **adds** the capability to link the **message** box to a program's online help facility. AfxMessageBox is irreplaceable when a severe error...DBLCLKS class style so the window will **receive** double-click **messages**. CS...nonclient-area mouse events.

Before a window receives any client-area or nonclient-area mouse **message**, it **receives** a WM...

...the receipt of a button-down message doesn't necessarily mean your application will also **receive** a button-up **message**. Suppose you've written a paint program that saves the point parameter passed to an...

...solution to this problem by allowing an application to capture the mouse and continue to **receive** mouse **messages** no matter where the cursor is positioned on the screen. The mouse is captured with...importance of capturing the mouse when tracking mouse movements in an application that counts on **receiving** a button-up **message** for each button-down message. Still, the program suffers from one rather serious flaw. Because...

MOUSEMOVE **message** is **received**.

```
CMainWindow::CMainWindow ()
```

```
{
```

```
    Create (NULL, "My Application");
```

```
    ::SetClassLong (m...
```

19950800

26/K/12 (Item 4 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01692945 SUPPLIER NUMBER: 16057690 (USE FORMAT 7 OR 9 FOR FULL TEXT)

SoftBench Message Connector: customizing software development tool

interactions. (Tutorial) (Technical)

Courant, Joseph J.

Hewlett-Packard Journal, v45, n3, p34(6)

June, 1994

DOCUMENT TYPE: Technical ISSN: 0018-1153 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3858 LINE COUNT: 00300

... care what tools will be connected, as long as those tools have a SoftBench Framework **message** interface. The **message** interface is **added** by using the SoftBench Encapsulator, (3) which allows users to attach messages to the functions...

...have become components of a user task.

[CHART OMITTED]

Message Connector Architecture

The architecture of **Message** Connector follows the component **model** of use encouraged by **Message** Connector. As shown ...As designed and implemented, a large portion of the routine manager's user interface simply **sends** a **message** to the SoftBench Framework requesting that a service be performed. As an example, the Enable and Disable command buttons simply **send** a **message** requesting that the routine engine enable or disable the selected routine. The routine manager was...

...routine engine must be very fast. It stores, deciphers, matches, and substitutes portions of framework **messages**, it **receives** and responds to a rapid succession of a large number of trigger messages, and it...

...status of the request.

A separate routine editor is started for each routine edit request **received** by the **message** server. When the routine manager sends a request to the message server to edit a...For most tools, the catalog file is provided for the user by the person who **added** the **message** interface. If the catalog file does not exist for a particular tool, it can be...

...the abstraction displayed or to hide some of the seldom used functions.

When the user **selects** a tool from the **Message** Connector routine editor tool list, the routine editor goes out and parses the tool's...

...that matches the routine engine's message connection. If the message server forwards a matching **message**, the routine engine **sends** a request for each of the THEN: statements to the message server.

Development Process

Message...

19940600

26/K/13 (Item 5 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01679328 SUPPLIER NUMBER: 15313308 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Multimedia mail: new multimedia messaging standards and innovations mean more power and better interoperability for enterprise E-mail.

(Interoperability: Practical Solutions to Complex Networks special section) (includes related article on E-mail systems that support the Multipurpose Internet Mail Extensions standard)

Freed, Ned

LAN Magazine, v9, n5, pS29(8)

May, 1994

ISSN: 0898-0012 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 5044 LINE COUNT: 00392

TEXT:

...is rapidly becoming a fact of networking life. Workstation users are no longer satisfied with **sending** simple, plain-text **messages**. Now they want to send word processing files, spreadsheets, and other data files as e...

... with the appropriate spreadsheets and pie charts, you can format the document as a MIME **message** and **send** it electronically. The graphics files, spreadsheets, text, and even the PostScript formatting all remain intact...

...standalone messages or as individual parts of a multipart message. For example, a user can **send** a video **message** with accompanying audio and a plain text transcript.

Since MIME was designed to be an...an additional image subtype based on the TIFF specification has been developed, enabling users to **send** e-mail **messages** to remote printers, including fax machines.

Another specification for vector graphics is being developed to...

...MIME as a canonical or intermediary format to handle message conversion. In these systems, a **message** can be **received** by a MIME e-mail system in any format, converted to MIME message, then reconverted...create graphic messages the composition agent may interface to a graphics terminal. And since the **Message** Designer is extensible, you can **add** composition agents to support almost anything--MacPaint, Microsoft Word, Lotus 1-2-3.

When shopping...

...message format compatibility. If you are using Microsoft Mail, for example, and you need to **send** multimedia **messages** over the Internet, there is no guarantee the recipient is using the same sort of...

...are forwarded to that registered user. Similarly, incoming Lotus 1-2-3 spreadsheets can be **received** as MIME **messages** by the gateway, then converted to Microsoft Excel before they are forwarded.

The enclave concept...

...give everyone free choice with regard to e-mail formats, or you can provide preference **templates** that limit the **selection** to specific formats.

If you run the network at a small high-tech company with...for the recipient but also could receive a GIF or TIFF picture as a MIME **message** as well.

No matter which **model** you choose when creating your e-mail system, adopting MIME as the messaging format allows...

...read every part of a MIME message. What if you can a PC user who **receives** a MIME **messages** consisting of plain text, spreadsheets, audio, and video parts? Unless you have the right hardware...

...MIME headers, users can simply access the header information, then determine which parts of the **message** they want to **receive**. This option is particularly valuable for users who access e-mail from multiple locations. For example, if the IMAP server is configured to **send** multimedia **messages** to the Sun workstation in your office, but you are accessing e-mail from your...

...their own scripting languages to create specified computational processes that are executed when the mail **message** is **received**.

Enabled mail brings in the concept of active mail. Traditionally, e-mail, including multimedia mail, has been passive-- **messages** are **received** and displayed by the recipient. With active mail, a message can contain a program that...

19940500

26/K/14 (Item 6 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01667614 SUPPLIER NUMBER: 15017962 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Process messages with SAL. (SQLWindows Application Language for database application development, Structured Query Language for Microsoft Windows) (Client/Server Advisor: Inside SQLWindows) (Column) (Tutorial)

Goddard, Doug

Data Based Advisor, v12, n1, p116(3)

Jan, 1994

DOCUMENT TYPE: Tutorial ISSN: 0740-5200 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2249 LINE COUNT: 00175

... on objects for now. An active object is defined, temporarily, as one that has a **Message** Actions section within its outline **template**. Passive objects don't process **messages**, nor do they contain a **Message** Actions section. Background text fields, group boxes, lines, and...

...and so on.

Besides an active object or class, the application can also process a **message**. A **selection** called Application Actions within the Global

Declarations section of the outline defines which messages are...
 ...of messages sent to it than to a window object. However, you can't
 programmatically **send** the application a **message** like you can to a
 window object. Even so, the same statement is used to...

...commands that begin executing procedural code to perform the
 pushbutton's required task.

The first **message** a SQLWindows application **receives** is
 SAM[underscore]AppStartUp. The messages is trapped within the Application
 Actions section. As the...frmMain, so it's created with the others. When
 dfHello is created, the first SQLWindows **message** it **receives** is
 SAM[underscore]Create. I trap SAM[underscore]Create, then set dfHello equal
 to the...

...application or user-defined message. SAM[underscore]User is the entry
 point for defining new **messages**, so I **add** one to it. Now I can trap
 PAM[underscore]INIT inside an active object or...

...INIT, 0, 0)

When a user presses the Push Me button, the SAM[underscore]Click
message it **receives** forces it to send the PAM[underscore]INIT message to
 dfHello. dfHello, in turn, sets...

...first parameter to SalSendMessage() is the template name (or window
 handle), of the window that **receives** the **message**. The second parameter
 is the name (equal to the number) fo the **message** to **send**. The third and
 forth parameters are the wParam and the lParam, the 16- and 32-bit numeric
 parametes, that may contain additional information about a **message**.

I **added** a check box to the form and named it Clear. Whether or not
 the check...

...to turn it on or off.

To implement the check box functionality I change the **send message**
 code to the following:

On SAM[underscore]Click Call SalSendMsg (dfHello,
 PAM[underscore]INIT, cbClear...also responsible for triggering the
 execution of procedural code blocks. The procedures may, in turn, **send**
 their **messages** to other window objects, or perhaps, create new window
 objects. The messages sent may be...

19940100

26/K/15 (Item 7 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01621993 SUPPLIER NUMBER: 14474854 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**System software for the '90s. (applications for the Macintosh) (includes
 related articles on technical developments related to QuickDraw GX,**

PowerTalk and the Apple Open Collaboration Environment, and AppleScript)

Bortman, Henry; Rizzo, John; Somogyi, Stephan

MacUser, v9, n12, p105(7)

Dec, 1993

ISSN: 0884-0997 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3741 LINE COUNT: 00300

... on a network.

New Chooser

Selecting a printer in the GX Chooser creates a desktop **icon** for
 that printer. You can **select** the default printer by clicking on it on the
 desktop (here the printer Yr LaserWriter...

...appears on your desktop, provides access to your personal In Tray, which
 contains all the **messages** you **receive**. These can include e-mail

messages from LAN services such as QuickMail, dial-in services such as CompuServe or the Internet; fax messages; document files; and even voice-mail **messages** .

Digital Signature

When **sending** a **message** , you can choose to activate a digital signature, a security measure that guarantees to the...

...at the top of document windows, so you can send a document as a mail **message** . You can **add** enclosures -- an illustration from the marketing team, for example -- by dragging files from the Finder...

...can create your own layouts too. The AOCE architecture also allows for the design of **business** -card **templates** by third-party developers.

Collaborative Catalogs

When you double-click on the Catalogs icon, you...

...server, a QuickMail server, even a CompuServe account. PowerTalk Key Chain, one of three new **icons** PowerTalk **adds** to the desktop, contains the list of servers you automatically connect to from the Sign...to ship by the end of the year.

AOCE changes more than the way you **send messages** , however. With PowerTalk installed, the AppleTalk catalog in the Catalogs window offers much of the...

19931200

26/K/16 (Item 8 from file: 275)

DIALOG(R) File 275:Gale Group Computer DB(TM)

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01597065 SUPPLIER NUMBER: 13720400 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Surveying new capabilities of the Microsoft Foundation Class Library

version 2.0. (Tutorial)

Shaw, Richard Hale

Microsoft Systems Journal, v8, n6, p41(19)

June, 1993

DOCUMENT TYPE: Tutorial ISSN: 0889-9932 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 13239 LINE COUNT: 01067

... list of document templates is maintained by your program's application class object; each document **template** is automatically **added** to this list when you create it. Thus, the application class "knows" what type of...

...call CWinApp::OpenDocumentFile. OpenDocumentFile will determine which document template to use based on the file **selected** , and call the **template** object's OpenDocumentFile member function--in an MDI application, this is CMultiDocTemplate::OpenDocumentFile.

CMultiDocTemplate::OpenDocumentFile...from CCmdTarget are capable of handling and routing messages and of creating and maintaining a **message** map. The **messages received** by a view are forwarded to it by its associated window. If the view does...last three arguments will be passed as &CMyDoc::classCMyDoc, &CMDIChildWnd::classCMDIChildWnd, and &CMyView::classCMyView.

To **add** the document **template** to the list maintained by your application class object, you'll need to call CWinApp...

...function. CWinApp::AddDocTemplate takes a pointer to a CDocTemplate-driven object as a parameter, and **adds** the document **template** to the list of document templates maintained by the application. To adapt the code fragment...

...to open, CWinApp::OnFileOpen will call CWinApp::OpenDocumentFile, which figures out what type of document **template** object is associated with the **selected** document.

Since you can use AppWizard to automatically generate the code that creates and **adds** a document **template** to your application, you don't ordinarily have to be aware of all these details. But Visual C++, AppWizard, and ClassWizard have no means to let you **add** more than one document **template** to your application: the only solution is to copy-and-paste an existing piece of...

...how document templates are connected to documents and views is very important.

While the entire **business** of using document **templates**, documents, and views may sound rather complex, the fact is that it's far easier...I used the default name supplied by ClassWizard, OnUpdatePhone, and added the function. This process **added** a **message**-map member function declaration to CMyDialog's class definition

```
//{{AFX...
```

...UPDATE is the **message** that Windows **sends** to the parent window of an edit control when the control is about to display...did earlier with a CDialog-derived class.

As a last step, you may want to **add** a new document **template** to the application: copy the existing document template from your application's InitInstance function, and...to:

* Modify the toolbar image provided by Visual C++ * Modify the buttons array shown above * **Add** new **message**-handling functions for any additional toolbar bitmaps * Modify the appropriate message map (probably the application...on access by a user. Thus, with my four VCR-like buttons, I needed to **add** four **message** handlers to the **message** map of my frame window class.

BEGIN...This is true for any dialog bar or toolbar interface object.

Once I updated the **message** map, I **added** a **message** handler for each button to the frame window class. Thus, the message handler for the...

33/K/1 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2004 ProQuest Info&Learning. All rts. reserv.

02518032 164387901

Mission statements as corporate communications: The consequences of social constructionism

Hackley, Christopher

Corporate Communications v3n3 PP: 92-98 1998

ISSN: 1356-3289 JRNL CODE: CCMM

WORD COUNT: 4036

...TEXT: head. These are the cognitive structures which are the precondition for consciousness. With this theoretical **template**, one can talk about **communication** as a matter of designing messages (such as mission statements) which can be fired across...

... designing mission statements this analysis has direct implications. The theoretical psychological/ideological space between the **message** encoder and the **message** decoder is no longer practically functional. The machine metaphor of communication (press the button, fire the **message**, hit the target) gives way to a metaphor of shared consciousness between organisations and their publics. This may entail, for example, communicating through the kinds of cultural **message** -codes which constitute the symbolic world of the intended audience. In advertising, this involves tapping... several forms each of which springs from one coherent strategic vision but which can individually **translate** into forms of words which constitute meanings for specific publics. The strategic mission made public...

... the social groups being addressed, the one precondition being that they utilised the appropriate cultural **message** -code.

This approach takes the mission statement concept into an area of psychological theory which...

33/K/2 (Item 2 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2004 ProQuest Info&Learning. All rts. reserv.

01092314 97-41708

Object-oriented parallel computation for plasma simulation

Norton, Charles D; Szymanski, Boleslaw K; Decyk, Viktor K

Communications of the ACM v38n10 PP: 88-100 Oct 1995

ISSN: 0001-0782 JRNL CODE: ACM

WORD COUNT: 6451

ABSTRACT: It is argued that standard Fortran 90 and C++ with standard **message** -passing libraries provide an attractive basis for parallel programming. Object-oriented programming methods in high...

... Cell (PIC) simulation skeleton codes. Beginning with the parallel Fortran 77 version, the application is **converted** into an object-oriented form using the Intel Paragon, IBM SP1/SP2, and Cray T3D...

... practical issues encountered in software development on parallel machines, including programming abstractions, modifiability, portability (across **message** -passing libraries, machines, and compilers), numerical accuracy, and computational efficiency are examined. ...

...TEXT: Particle in Cell (PIC) simulation skeleton codes. Beginning with the parallel Fortran 77 version, we **convert** the application into an object-oriented form using the Intel Paragon, IBM SP1/SP2, and...

... practical issues encountered in software development on parallel machines, including programming abstractions, modifiability, portability (across **message** -passing libraries, machines, and compilers), numerical accuracy, and computational efficiency.

Overview of Plasma PIC Simulation...in user send/receive calls. The C++ versions do not make data directly accessible to **communication** routines, often due to **template** -related issues; hence buffers are required. These buffers collect the transmitted data, which are then...

33/K/3 (Item 1 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

06906881 Supplier Number: 57929481 (USE FORMAT 7 FOR FULLTEXT)

The Customer Always Clicks Twice.

Michael, Bill

Computer Telephony, v7, n11, p84

Nov, 1999

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 5565

... originated from a customer's PC (using NetMeeting or an Internet phone client app) and **converts** it to PSTN **format** before handing it over to the ACD and routing to an agent's phone. Similarly...an e-mail response form (which automatically inserts the customer's address and includes a **message template**), or a telephone response button that automatically dials the customer's number.

The newest release...

19991101

33/K/4 (Item 2 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2004 The Gale Group. All rts. reserv.

04312237 Supplier Number: 46320975 (USE FORMAT 7 FOR FULLTEXT)

Simply an e-mail interface, part 1

InfoWorld, p078

April 22, 1996

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 4715

... any SMTP system in place, the Internet is just one router hop away.

As a **message** transport, however, SMTP puts one irritating and surprisingly difficult-to-solve limitation on e-mail data: The **message** must be ASCII text. If you're just sending a quick text **message** to someone, SMTP's restriction isn't a problem. For a **message** that contains more than simple text, it's not difficult to **translate** a binary file into the ASCII character set. There are lots of utilities to encode...

...part of the problem. How do you know if your recipient can restore an encoded **message** back to its binary **format** ?

A TECHNICAL DIGRESSION. A companion standard, MIME, defines what most SMTP messages actually look like...**template** -- if you don't do it just right, nothing happens, not even an error **message** . After you select a **template** , a new **message** screen is created, based on the correct layout. But again, it would be nice to...

19960422

33/K/5 (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

03653699 Supplier Number: 45158016 (USE FORMAT 7 FOR FULLTEXT)
EDI Used By UK Ministry Of Defense 11/23/94
Newsbytes, pN/A
Nov 23, 1994
Language: English Record Type: Fulltext
Document Type: Newswire; General Trade
Word Count: 363

... generator which allows screens to be development for manually entered information. "The resultant screen intelligently **formats** the data entered so that it can be **translated** into the correct EDI **message** . The EDI report generator is used in a similar manner, allowing the MoD to print received information in a **format** they can understands," he said.

According to Atlas, this function turns machine readable EDI files...

...met all the requirements set out at the beginning of the project, enabling the required **message template** and **translation** facilities to be developed within the planned timescales and budget."

(Steve Gold/19941123/Press Contact...

19941123

33/K/6 (Item 4 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

02959592 Supplier Number: 44007516 (USE FORMAT 7 FOR FULLTEXT)
With Super. TCP and Z-Mail, What's Yours Is MIME
Network Computing, p40
August, 1993
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 2358

... provides a number of advanced features not found in many e-mail applications, including a **message template** capability that, for example, can simplify phone message and problem reporting; a comprehensive, though not...

...underlying messaging system. Other possible uses range from relatively simple applications, such as foreign mail **conversion** (a sample script to **convert** Unix RAND MH **Message** Handling System mail is included) and vacation notifiers (a sample script for this is included...

19930801

33/K/7 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

10540825 SUPPLIER NUMBER: 53097225 (USE FORMAT 7 OR 9 FOR FULL TEXT)
An Evidence-Based Approach to Interactive Health Communication: A Challenge to Medicine in the Information Age.
Robinson, Thomas N.; Patrick, Kevin; Eng, Thomas R.; Gustafson, David
JAMA, The Journal of the American Medical Association, 1264(1)
Oct 14, 1998
ISSN: 0098-7484 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 7533 LINE COUNT: 00660

...ABSTRACT: inaccurate advice or encourage laypersons to avoid

traditional medical care. The Science Panel on Interactive **Communication** and Health has proposed a **template** that physicians can use to report IHC products and services.

... be adapted to assess IHC.

Proposed Evaluation Reporting Template

The SciPICH proposes an Evaluation Reporting **Template** for Interactive Health **Communication** Applications, which is based on the rationale that all applications should undergo some level of...The Internet's challenge to health care provision. BMJ. 1996;312:3-4.

Evaluation Reporting **Template** for Interactive Health **Communication** Applications, Version 1.0, Science Panel on Interactive Communication and Health

I. Description of Application...

...template and other resources on evaluation of HO is available at URL:www.scipich.org.

(*) **Formative** evaluation is used to assess the nature of the problem and the needs of the...monitor the administrative, organizational, or other operational characteristics of an intervention. This helps developers successfully **translate** the design into a functional application and is performed during application development. This commonly includes...

19981014

33/K/8 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

09111072 SUPPLIER NUMBER: 18836193 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Personalize mass email messages. (Alpha Software's NetMailer and Arial Marketing Inc's E-Mail Merge Pro 2.0) (Software Review) (Evaluation)

Dennis, Kathryn

Marketing Computers, v16, n10, p68(2)

Nov, 1996

DOCUMENT TYPE: Evaluation ISSN: 0895-5697 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1736 LINE COUNT: 00133

... messages with long strings of names in the TO: field.

One thing, however, doesn't **translate** from the printed business letter to that use of email: the personal touch. Certainly, you...

...two programs that make it possible to merge database records with merge fields in email **messages**. Eventually, this capability will be built into many email and word processing packages. For now...

...easy, too, since you can drag and drop field names as merge fields in your **message**. The **template** creator encompasses more than the **message**. The program lets you put a merge field in the subject field as well. And...

19961100

33/K/9 (Item 3 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

08612024 SUPPLIER NUMBER: 18217088 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Simply an e-mail interface. (comparison of Qualcomm's Eudora Pro 2.0, CommTouch Software's Pronto Mail 2.01, Frontier Technologies' SuperTCP Suite 96 and NCD Software's Z-Mail 4.0) (includes related articles on results and testing methodology) (Software Review) (Evaluation)

Hutton, Bill; Davis, Susan; Smith, Gregory S.

InfoWorld, v18, n17, p78(8)

April 22, 1996

DOCUMENT TYPE: Evaluation ISSN: 0199-6649 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 9204 LINE COUNT: 00714

... any SMTP system in place, the Internet is just one router hop away.

As a **message** transport, however, SMTP puts one irritating and surprisingly difficult-to-solve limitation on e-mail data: The **message** must be ASCII text. If you're just sending a quick text **message** to someone, SMTP's restriction isn't a problem. For a **message** that contains more than simple text, it's not difficult to **translate** a binary file into the ASCII character set. There are lots of utilities to encode...

...part of the problem. How do you know if your recipient can restore an encoded **message** back to its binary **format** ?

A TECHNICAL DIGRESSION. A companion standard, MIME, defines what most SMTP messages actually look like...template -- if you don't do it just right, nothing happens, not even an error **message** . After you select a **template** , a new **message** screen is created, based on the correct layout. But again, it would be nice to...

19960422

33/K/10 (Item 4 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2004 The Gale Group. All rts. reserv.

07923891 SUPPLIER NUMBER: 17040022 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Mail Scout motto: filter e-mail. (Peloria Technology Corp's Mail Scout Rules Server for cc:Mail) (includes related article on test methodology) (Software Review) (Evaluation)

Kramer, Matt

PC Week, v12, n23, p65(2)

June 12, 1995

DOCUMENT TYPE: Evaluation ISSN: 0740-1604 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1348 LINE COUNT: 00106

... form. For example, to create a Schedule rule we entered the date and time the **message** should be sent, the address of the recipient, and the actual **message** . Mail Scout **converted** the parameters chosen in the form to a rules script that ran on the DOS...

...cc:Mail client software. For example, it would have been helpful to take a received **message** and use it as a **template** for creating a rule. Mail Scout currently requires users to manually fill in the parameters...

19950612

33/K/11 (Item 5 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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05850900 SUPPLIER NUMBER: 12211999 (USE FORMAT 7 OR 9 FOR FULL TEXT)

DataPub. (HB Type & Graphics) (Software Review) (one of five data base publishing software evaluations) (Evaluation)

Poor, Alfred

PC Magazine, v11, n10, p279(2)

May 26, 1992

DOCUMENT TYPE: Evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 845 LINE COUNT: 00061

ABSTRACT: HB Type & Graphics' \$95 DataPub is a data **conversion** software that does nothing but turn DBF. files into either a Ventura Publisher text file...

...DataPub is menu-driven. When installing the program, users must decide between dBase or Clipper **format** indexes. The program automatically creates index fields if users do not select one. DataPub comes...
... not allowed, but the resulting output file is empty. If you try to reopen the **template**, you will get a **message** that the **template** does not match the database. The company plans to fix this flaw in future versions...

19920526

33/K/12 (Item 6 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

04795888 SUPPLIER NUMBER: 08785134 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Applying electronic messaging: electronic messaging could transform business operations - if correctly planned and introduced.

Houldsworth, Jack

Telecommunications, v24, n8, p55(4)

August, 1990

ISSN: 0278-4831 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2872 LINE COUNT: 00239

... fine tuning of these corporate goals and aspirations, but this plan serves as a simple **template** for creating an evolutionary **message** handling migration plan.

A typical first step is to create a small private **message** handling domain which brings together all the disparate electronic mail services and all the ad...

...as videotex if the traffic levels justify them. If not, the MTA can submit the **messages** to an administration MTA for **conversion** to those services. The common MTA can also be linked to other commercial networks to ...

19900800

33/K/13 (Item 7 from file: 148)

DIALOG(R) File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

04587653 SUPPLIER NUMBER: 08185976 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The World Bank's open network. (using Systems Network Architecture protocols in a multivendor computer environment)

Steyer, H. Clement, Jr.

Datamation, v36, n4, p109(3)

Feb 15, 1990

ISSN: 1062-8363 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2278 LINE COUNT: 00188

... be made mandatory or optional in the definition.

The definition of data elements, fields and **messages** are stored centrally in a master reference file. From these definitions, software generates two products that are used to build and interpret **messages**: a submission **template** and a construction template. Submission templates are

fixed **format** record definitions that contain all fields for a **message** , with space for the maximum allowable size for each field. Construction templates are interpretation rules that provide the information needed to **convert** the fixed data **format** of the submission template into the free-**format** version (suppressing unused optional fields and unneeded zeros), which is actually transmitted and received. The construction rules are also used to parse free- **format messages** that are received back into the fixed **format** of submission templates so that a receiving application can easily operate on the data received...

19900215

33/K/14 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01966972 SUPPLIER NUMBER: 18564805
Integrity control.(Server Side)(integrity control features in Computer Associates' CA-OpenIngres 1.2, Oracle Server 7.2, Microsoft SQL Server 6.0, Borland InterBase Server 4.0 and Centura Software SQLBase 6.0)
(Product Information)(Column)
Rennhackkamp, Martin
DBMS, v9, n9, p103(4)
August, 1996
DOCUMENT TYPE: Column ISSN: 1041-5173 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 3466 LINE COUNT: 00273

... function in the listing truncates the date to the year. Date extraction and data type **conversion** functions are dependent on implementation--they are not specified in the ANSI SQL-92 standard. Note that I would like (read: "require") a DBA-specified **message** for every constraint and for every domain definition, similar to the **messages** I described in last month's column on referential-integrity constraints (See DBMS, July 1996, page 74). Alas, such a **message** is not possible using the ANSI SQL-92 standard syntax.

The material in this section...messages returned by these constraints. However, if you are brave, you can change the error **message template** that is stored in the sysmessages table in the master database, or you can use...

...altermessage to change the **template message** text.

Microsoft SQL Server supports column constraints using the ANSI SQL-92 syntax shown in...

19960800

33/K/15 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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01804827 SUPPLIER NUMBER: 17155740 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Tools and utilities.(1995 Database Buyer's Guide and client/server sourcebook)(Buyers Guide)
DBMS, v8, n6, p72(29)
May 15, 1995
DOCUMENT TYPE: Buyers Guide ISSN: 1041-5173 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 45154 LINE COUNT: 03869

... for navigational control and security at the application level. Features include stored procedure support, intersheet **communication** ,

object-oriented class library, application **template**, tab-control object, window ancestor hierarchy, DataWindow ancestor, hierarchy, naming conventions, and table-driven navigation...378-7528

A OUI-based end-user data access, query, and reporting tool. Used to **convert** queries and report **formats** between the mainframe and the PC, thus providing PC/LAN users with mainframe data and...

...Offers a decision-support system that gives users ad hoc querying, analysis, charting, and data- **conversion** facilities. Shields novice users from SQL and provides performance and functionality to database professionals. Optimizes...

...No need to set up or maintain a separate data dictionary. Executives and managers can **convert** the query data to The SAS System, Excel, Lotus 1-2-3, dBASE, WordPerfect mail merge, delimited, and other **formats**. Databases supported via their native APIs include DB2 Family, Informix, Ingres, Microsoft SQL Server, Oracle...2.5

Rory Data International, North Potomac, MD
301-330-5118

A DOS utility that **converts** report **format** (.frx) files designed with FoxPro's built-in report writer into customizable program (.prg) files
...

19950515

33/K/16 (Item 3 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)
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01794107 SUPPLIER NUMBER: 16978967 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Meandering through the maze of MFC message and command routing. (Microsoft Foundation Class) (Tutorial)

DiLascia, Paul

Microsoft Systems Journal, v10, n7, p17(18)

July, 1995

DOCUMENT TYPE: Tutorial ISSN: 0889-9932 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 11504 LINE COUNT: 00938

... Get a message. 2. Process it.

Simple, right? The first involves not only getting the **message**, but also possibly **translating** it. As for step two, MFC devotes so much effort to processing WM-COMMWND **messages** that it makes sense to consider commands separately from other Windows **messages**. MFC also adds a ...while

```
(GetMessage(&msg, NULL, 0, 0)) {
    TranslateMessage(&msg);
    DispatchMessage(&msg); // send to window proc
}
```

This **message** pump is the heart of every Windows-based program. MSG is a struct that holds the HWND, **message** ID, WPARAM, and LPARAM, plus a couple of other things. You get one, then dispatch...

...in the middle--what's that? Oh, never mind, it's just a function to **translate** WM...

...KEYUP **messages** into WM...

...to do accelerators. TranslateAccelerator sees Ctrl-X go by, looks in your accelerator table, and **translates** it into a WM...

...COMMAND **message** with ID of ID...

...just like the user picked Edit Cut from the menu. TranslateMessage

returns TRUE indicating the **message** was **translated** and dispatched, so you know not to dispatch it again.

Windows has all sorts of voodoo functions to **translate messages**: you don't really understand the rhyme or reason, you just do what they tell ...shoulder to fix your kidneys.

MFC corrects this situation by letting windows do their own **message translation**. In MFC, the dialog, not WinMain, calls IsDialogMessage. How does it work? To understand, let's start with MFC's version of the **message pump**. It starts in CWinApp::Run.

```
int CWinApp::Run()
{
    .
    :
    for (;;) {
        while (!::PeekMessage(&m...
```

...idle work to do:

```
// pump it
if (!PumpMessage())
break:
{
    return ExitInstance();
}
```

If there are no **messages** waiting, MFC calls OnIdle, which you can override to do something useful like calculate twin...

...OnIdle at the end or you'll be in deep doodoo. If there are no **messages**, or no more idle work to do, CWinApp calls PumpMessage, which does the Get/ **Translate** /Dispatch schtick, just like in the old days:

```
BOOL CWinApp::PumpMessage()
{
    .
    :
    if (!::GetMessage(&m msgCur...
```

...That's right, there's PreTranslateMessage for CWinApp and PreTranslateMessage for CWnd. Now windows can **translate messages**. When one does, it returns TRUE all the way up the stack. **Message** received. Next, please. The flow is illustrated in Figure 2.

It may make your head...

```
...hWnd, pMsg):
return FALSE:
}
```

It makes a lot more sense to **translate** dialog **messages** in the dialog class instead of CWinApp, don't you think? CWinApp doesn't know...

...doesn't get called for modal dialogs because when you call DoModal, Windows starts another **message** loop and control doesn't return until the dialog is over. But the really wonderful...migrated to CWinThread, from which CWinApp is now derived.

One Framework, One Window Proc

Most **messages** are never **translated**. PreTranslateMessage returns FALSE all the way up the line and CWinApp::PumpMessage calls ::DispatchMessage, which is a kind of Windows wormhole. Your **message** disappears inside, then magically reappears in your window procedure (see Figure 4).

You know the...case you hadn't noticed, I've covered the first two elephant chunks: getting/translating **messages** and processing them. There's just one more piece left to digest, user interface objects. Once...thinks CApp is derived from CWinApp even though TrCmdTarget<WinApp> sits between. Likewise, the message **map** base pointers skip the template **classes**. So, for example, the base class message map pointer for CFileView points to CView's...

...s the only one from Microsoft that supports templates.

Figure 3 MFC Message Routing

Message **Translation**

Function

CWinApp::PreTranslateMessage

CWinThread::PreTranslateMessage (32 bit MFC) Purpose

Translate accelerator keys. MFC Implementation(s)

CWinThread...

...and its parents, plus the

main frame. This lets each window implement its own

message **translation** . If any window handles the message, it

returns TRUE and routing stops. When to override

Rarely to never. Use if you have...

19950700

33/K/17 (Item 4 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01712996 SUPPLIER NUMBER: 16289479 (USE FORMAT 7 OR 9 FOR FULL TEXT)

EDI used by UK Ministry of Defense.

Gold, Steve

Newsbytes, NEW11230023

Nov 23, 1994

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 397 LINE COUNT: 00031

... generator which allows screens to be development for manually entered information. "The resultant screen intelligently **formats** the data entered so that it can be **translated** into the correct EDI **message** . The EDI report generator is used in a similar manner, allowing the MoD to print received information in a **format** they can understands," he said.

According to Atlas, this function turns machine readable EDI files...

...met all the requirements set out at the beginning of the project, enabling the required **message template** and **translation** facilities to be developed within the planned timescales and budget."

(Steve Gold/19941123/Press Contact...

19941123

33/K/18 (Item 5 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01703174 SUPPLIER NUMBER: 16236844 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Wider platform for the workgroup. (Groupware) (Wordperfect/Novell's

Symmetry 4.1 workgroup software) (includes related article on telephone

access for Symmetry) (Software Review) (Evaluation)

Wright, Tim

PC User, n239, p54(2)

July 13, 1994

DOCUMENT TYPE: Evaluation ISSN: 0263-5720nternational ISSN: 0263-5720

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2976 LINE COUNT: 00233

... spreadsheet, for example, you can invoke a Mail command and immediately pull up an Symmetry **message template** , ready to send your spreadsheet file as an attachment to anyone on the system.

Support...the user how many messages are waiting.

The user can then choose to play new **messages** , delete **messages** or send **messages** to other users. **Messages** are converted to audio output for the user to review the contents of each **message** . You can then fax a **message** to the nearest fax machine simply by entering a fax number using the keypad. **Messages** can be searched for and printed out using the same process.

TAS uses the Office...

19940713

33/K/19 (Item 6 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01635282 SUPPLIER NUMBER: 15041286 (USE FORMAT 7 OR 9 FOR FULL TEXT)

LAN e-mail packages. (local area network) (PC User NSTL Lab Test) (Software Review) (includes related articles on National Testing Software Laboratories' testing facilities and the recommended packages) (Evaluation)

PC User, n224, p116(14)

Dec 1, 1993

DOCUMENT TYPE: Evaluation ISSN: 0263-5720 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 7978 LINE COUNT: 00660

... e-mail systems. The gateways connecting the LAN e-mail system to the host-based **message** system should provide more than just basic ASCII **translation** and maintain the integrity of complex documents as they pass through the backbone.

Installation and...windows can be tiled or cascaded. The template feature lets users save a frequently used **message** as a **template** for future use. Testers were unable to find a way to customise the icon bar...

19931201

33/K/20 (Item 7 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01591645 SUPPLIER NUMBER: 13667549 (USE FORMAT 7 OR 9 FOR FULL TEXT)

The Q+E connection: how the Q+E Database Editor serves as a communications hub between applications and between users. (Pioneer Software's Q+E Database Editor SQL front end) (Tutorial)

Wales, Charlotte W.

DBMS, v6, n4, p62(5)

April, 1993

DOCUMENT TYPE: Tutorial ISSN: 1041-5173 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3299 LINE COUNT: 00246

... the database with this information and then invokes Word with the name of the relevant **message template** . Each type of **message** has its own **template** and an associated autoloading WordBasic macro that invokes the Q+E Database Editor to access...As illustrated in the raw query window shown in Figure 2, Q+E does not **translate** all of the Excel **formats** correctly. Cells **formatted** as dollars in Excel are treated like Date fields in Q+E. If the column...

...character data type to the column but displays the monetary figure in a skewed date **format** . Again, redefining these mistranslated fields as Money fixes the problem. In general, if a column...

19930400

33/K/21 (Item 8 from file: 275)

DIALOG(R) File 275:Gale Group Computer DB(TM)

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01459319 SUPPLIER NUMBER: 11481461 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Using Pathworks with System 7. (DEC's network software) (The Mac Connection)
Cini, Al

DEC Professional, v10, n10, p92(3)

Oct, 1991

ISSN: 0744-9216 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1345 LINE COUNT: 00102

... off' a copy of the original file. Using the Pathworks Mail for Macintosh application, a **template message** file can be saved to disk, then **converted** to a stationery pad to provide a limitless supply of preaddressed electronic mail **messages**.

Making it Work

Now that you're an fired up about System 7, how do...

19911000

33/K/22 (Item 9 from file: 275)

DIALOG(R) File 275:Gale Group Computer DB(TM)

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01455364 SUPPLIER NUMBER: 11411733 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Architectures for 32-bit Windows applications. (Microsoft Windows 3.0 graphical user interface) (Technical article) (tutorial)

Oney, Walter

TECH Specialist, v2, n10, p5(10)

Oct, 1991

DOCUMENT TYPE: tutorial ISSN: 1049-913X LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3882 LINE COUNT: 00299

... process the call, Windows creates a dialog window with whatever controls and other parts the **template** describes, and it operates a **message** loop for that window until your dialog function dismisses the dialog by calling EndDialog(). DialogBox...function call which is usually a 32-bit integer) as a far pointer.

* Some control **messages** (for example, EM GETLINE) also use lParam as a pointer. You cannot spot these in a generic way because the **message** identifier is WM...

...USER plus a small integer and is the same as **message** numbers for other controls that do not require **translation**.

There are many more problems like these, some of which you can only discover by...

19911000

33/K/23 (Item 10 from file: 275)

DIALOG(R) File 275:Gale Group Computer DB(TM)

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01388497 SUPPLIER NUMBER: 09390890 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Centrex CPE buyers' guide. (customer premises equipment) (buyers guide)

Teleconnect, v8, n12, p88(14)

Dec, 1990

DOCUMENT TYPE: buyers guide ISSN: 0740-9354 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 7589 LINE COUNT: 00602

... page listing pager numbers and voice box extensions, and a ready-to-be-filled out **message template** with cursor poised and in position. The system can deliver messages to mini-printers, PCs...Banks (ICBS) from Newbridge (Herndon, VA) provide T-1 access to Centrex service. The units **convert** up to 24 analog voice lines to a digital **format** compatible with standard T-1 local loops, terminating on an integral CSU (channel service unit...without the need for an additional applications processor at the CO. Call records are then **converted** into standard **format** data files. The system ranges from \$5,000 to \$18,500 for ISDN recording.

Earthnet...

19901200

33/K/24 (Item 11 from file: 275)
DIALOG(R) File 275:Gale Group Computer DB(TM)
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01373601 SUPPLIER NUMBER: 09423407 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Where the quick meets the easy. (Lattice Inc.'s dBC III Plus, Sequiter Software Inc.'s Code Base 4 and Copia International's AccSys for dBASE) (Software Review) (dBASE-compatible file managers) (evaluation)

Craigie, Russell
EXE, v5, n3, p18(4)
August, 1990

DOCUMENT TYPE: evaluation ISSN: 0268-6872 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2764 LINE COUNT: 00209

... database, index and memo files. The library supports both the DBASE NDX and Clipper NTX **formats** for index files; there is no support for dBASE IV's multiple index files. Records...

...two distinct sets of functions for accessing memo files. The first supports the memo file **format** used by DBASE III, DBASE III + and Clipper, the second is compatible with the memo file **format** used by DBASE IV. Both provide the same functionality. The key difference between them is...

...space when writing memo file information. There is also a call that allows you to **convert** dBASE III memo files into DBASE IV **format**. Memos may contain up to 32,767 characters.

CB4 also provides a memo edit routine...

...set of pre- and post-modifier routines allow you to specify the attributes, associate a **message** and define a **template** for an area. Finally, CB4 also supports pop-up, pulldown, vertical, horizontal and Lotus style...

19900800

33/K/25 (Item 12 from file: 275)
DIALOG(R) File 275:Gale Group Computer DB(TM)
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01354198 SUPPLIER NUMBER: 08311878 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Smalltalk as a programming environment. (contains a related article on Smalltalk objects)

Suydam, Bill

Computer Language, v7, n4, p34(5)

April, 1990

ISSN: 0749-2839 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2789 LINE COUNT: 00221

... class Date, for example, so it returns a string representing a date in a specific **format**, say 900421 for April 21, 1990. You can subsequently **convert** any date to a string of the desired **format** by sending it a **message** telling it to execute the appropriate method.

Remembering objects

Objects and their properties are easier...menu, a code template appears in the source-code text pane. We would define the **message** syntax by overwriting the **template** with the words openOn: aPhonebook. This shows us that when using the method openOn: with...

19900400

33/K/26 (Item 1 from file: 9)

DIALOG(R)File 9:Business & Industry(R)

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1469089 Supplier Number: 01469089 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Digital options put regular PPV into a tailspin

(Cable operators are not launching PPV services en masse; instead are expanding analog channels)

Video Business, p 52+

April 19, 1996

DOCUMENT TYPE: Journal ISSN: 0279-571X (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1410

(USE FORMAT 7 OR 9 FOR FULLTEXT)

ABSTRACT:

...instead, are expanding analog channels until digital compression and a new generation of set-top **converters** open up a multitude of channel capacity. However, no one knows when that will be...

...mil homes by early next century. Cable operators believe that more convenient and effective scheduling **formats** will be necessary in the near future to be able to compete with the growing...

TEXT:

...buy-rates by offering \$2.99 movies every 30 minutes in a 50- to 60-**channel** environment. That's the **template** of a successful PPV operation, these executives argue.

"We feel DirecTv has socialized PPV in...

33/K/27 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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03289834 Supplier Number: 46759585 (USE FORMAT 7 FOR FULLTEXT)

KODAK: 'Snap it and see' with Kodak's new DC25 digital camera

M2 Presswire, pN/A

Oct 1, 1996

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1005

... mail pictures and text in a picture postcard template. After

placing the picture in the **template** , users can add text **messages** . When complete, a click on a mailbox icon sends the picture postcard as e-mail...

...the PC range.

- FlashPix Kodak plans a DC25 software upgrade that will enable users to **convert** pictures to the new FlashPix image file **format** .

An open standard for digital imaging, the new image file format uses Microsoft's OLE...

19961001

33/K/28 (Item 2 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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01454406 Supplier Number: 41965380 (USE FORMAT 7 FOR FULLTEXT)

Software review

EDI in Finance, pN/A

April, 1991

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1046

... C is marketed as a Multi-network EDI Gateway. It does in fact provide the **translation** and network command (for the three main UK VANs plus the GDN) functionalities referred to...

...a small extra charge. (How small? See below.) However, it will automatically batch up all **messages** for users on different networks (as described in your preset user profiles) and connect to...

...and documentation, one VAN connection module (IBM, INS, AT&T ISTELE or GDN) and one **message** table alias **template** . Unix and Xenix PC versions cost GBP 2000 on the same basis, while a Unix...

19910401

33/K/29 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

04274403 INSPEC Abstract Number: B9212-6210G-004, C9212-6155-005

Title: Pilot Mail: a group oriented E-mail based on management of speaking and acting

Author(s): Ichimura, S.; Matsushita, Y.

Author Affiliation: Dept. of Instrumentation Eng., Keio Univ., Tokyo, Japan

Journal: Transactions of the Information Processing Society of Japan
vol.33, no.7 p.955-63

Publication Date: 1992 Country of Publication: Japan

CODEN: JSGRD5 ISSN: 0387-5806

Language: Japanese

Subfile: B C

Abstract: Describes the speech act theory; the default template; a modified **template** ; **template** evaluation; a **message** sent through electronic mail; a **template** for initiating a **conversion** ; the conversation manager; and a template for forwarding image data.

1992

?

?show files

File 15:ABI/Inform(R) 1971-2004/Sep 01
 (c) 2004 ProQuest Info&Learning
 File 16:Gale Group PROMT(R) 1990-2004/Sep 01
 (c) 2004 The Gale Group
 File 148:Gale Group Trade & Industry DB 1976-2004/Sep 01
 (c)2004 The Gale Group
 File 160:Gale Group PROMT(R) 1972-1989
 (c) 1999 The Gale Group
 File 275:Gale Group Computer DB(TM) 1983-2004/Sep 01
 (c) 2004 The Gale Group
 File 621:Gale Group New Prod.Annou.(R) 1985-2004/Sep 01
 (c) 2004 The Gale Group
 File 9:Business & Industry(R) Jul/1994-2004/Aug 31
 (c) 2004 The Gale Group
 File 20:Dialog Global Reporter 1997-2004/Sep 01
 (c) 2004 The Dialog Corp.
 File 476:Financial Times Fulltext 1982-2004/Sep 01
 (c) 2004 Financial Times Ltd
 File 610:Business Wire 1999-2004/Sep 01
 (c) 2004 Business Wire.
 File 613:PR Newswire 1999-2004/Sep 01
 (c) 2004 PR Newswire Association Inc
 File 624:McGraw-Hill Publications 1985-2004/Aug 31
 (c) 2004 McGraw-Hill Co. Inc
 File 634:San Jose Mercury Jun 1985-2004/Aug 31
 (c) 2004 San Jose Mercury News
 File 636:Gale Group Newsletter DB(TM) 1987-2004/Sep 01
 (c) 2004 The Gale Group
 File 810:Business Wire 1986-1999/Feb 28
 (c) 1999 Business Wire
 File 813:PR Newswire 1987-1999/Apr 30
 (c) 1999 PR Newswire Association Inc
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 (c) 2003 EBSCO Pub.
 File 256:TecInfoSource 82-2004/Jul
 (c)2004 Info.Sources Inc
 File 474:New York Times Abs 1969-2004/Aug 31
 (c) 2004 The New York Times
 File 475:Wall Street Journal Abs 1973-2004/Aug 31
 (c) 2004 The New York Times
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
 (c) 2002 The Gale Group

?ds

Set	Items	Description
S1	6417562	TEMPLATE? ? OR MODEL? ?
S2	2519093	MESSAG???
S3	42062619	BUSINESS
S4	13024308	FINANCIAL
S5	585443	S1 (5N) (S2 OR S3 OR S4)
S6	13555765	ADD???
S7	6299899	SELECT???
S8	2633099	ICON? ? OR TEMPLATE? ? OR MESSAGE? ?
S9	38716	S6 (5N) S8
S10	26919	S7 (5N) S8

S11	144	S5 AND S9 AND S10
S12	9976202	RECEIV???
S13	101243	INBOUND???
S14	2502422	SEND???
S15	103910	OUTBOUND???
S16	3503204	MESSAG??? OR EMAIL? ?
S17	781348	(S12 OR S13) AND (S14 OR S15)
S18	10046596	S12 OR S13
S19	2591720	S14 OR S15
S20	148408	S18 (3N) S16
S21	355735	S19 (3N) S16
S22	42896	S20 AND S21
S23	22	S11 AND S22
S24	17	RD (unique items)
S25	55361128	PY<2000
<i>read</i> S26	16	S24 AND S25
S27	919	(CHANNEL??? OR COMMUNICATION OR MESSAGE? ?) (5N) TEMPLATE
S28	3544367	TRANSLAT??? OR CONVERT??? OR CONVERSION
S29	187188	S28 (S) (FORMAT???? OR MESSAGE? ?)
S30	47	S27 AND S29
S31	35	S30 AND S25
<i>read</i> S32	34	S31 NOT S26
<i>read</i> S33	29	RD (unique items)
?		